

**SENIOR ENGINEERING TECHNICIAN***Class Definition*

Under general supervision, performs more difficult technical engineering work in the field or office; assists with the design, land survey, construction, research, and development of a wide variety of engineering projects.

*Distinguishing Characteristics*

Senior Engineering Technician is the advanced working level class in the Engineering Technician series. Incumbents perform complex and highly technical engineering work and may provide lead direction to lower-level personnel. This class is distinguished from Engineering Technician II in that the latter is the journey-level class in which incumbents perform moderately difficult, but routine engineering work of a technical nature. Senior Engineering Technician is distinguished from Supervising Engineering Technician in that the latter is a full supervisory class in which incumbents have administrative responsibility over a section or major construction project. The Engineering Technician series differs from the Engineering Aide series in that incumbents of the latter generally perform manual field-related tasks similar to assisting in a survey crew or conducting traffic counts.

*Typical Tasks*

(An incumbent may not be assigned all duties listed, nor do the examples cover all duties which may be assigned.)

Prepares and reviews plans and specifications for public works projects such as sewer and water systems, roads and streets, bridges, overcrossings, utilities, storm drainage systems, traffic signals and street lighting.

Processes Subdivision Maps, Parcel Maps, and Lot Line Adjustments for condition of Map Approval.

Reviews and makes determinations on development applications for environmental assessments, site plan reviews, conditional use permits, parcel and subdivision maps.

Calculates fees and charges for inspection, plan review, fire hydrant credit and other development associated projects.

Coordinates and monitors the formation of City assessment districts such as Landscape Maintenance and Special Assessments.

Coordinates fee schedule and City code updates.

Coordinates and administers mandated programs such as Cross-Connection Control and Urban Growth Management.

Prepares legal descriptions of property for utility lines, grants, and easement deeds under the responsible charge of a professional engineer licensed to perform land surveying by the State of California.

Assists in administering the City abandonment and encroachment policy program.

Assists in gathering and analyzing various types of engineering related data.

Makes field investigations of construction projects, citizen complaints and requests; inspects operational installations for conformance with engineering plans.

May provide lead direction to lower-level technical personnel.

Performs related duties as required.

*Knowledge, Abilities, and Skills*

Considerable knowledge of engineering techniques and practices.

Considerable knowledge of modern methods and techniques used in the design, construction and maintenance of public works facilities and projects.

Considerable knowledge of land division processes and records.

Knowledge of mathematics through trigonometry.

Knowledge of engineering maps, records, symbols and nomenclatures.

Knowledge of data processing equipment and formatting.

Ability to perform complex technical engineering work.

Ability to establish and maintain effective working relationships with other officials and the public.

Ability to prepare technical reports.

Ability to provide lead direction to lower-level technical employees.

Ability to effectively communicate both orally and in writing.

Senior Engineer Technician

Page 3

*Minimum Qualifications*

Twenty-four (24) units of college level course work in engineering, geometry, trigonometry, drafting, surveying, or related field; and two (2) years of experience equivalent to that gained as an Engineering Technician II with the City of Fresno. Additional qualifying experience may be substituted for the required education.

*Necessary Special Requirement*

Possession of a valid California Driver\*s License at time of appointment.

APPROVED: \_\_\_\_\_

Director of Personnel

DATE: \_\_\_\_\_

MR/MPA/co/10/1/90

+201/SPEC3